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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,837	02/08/2001	Norihiro Nakatsuhama	1614.1123	6812
21171	7590 05/18/2004		EXAMINER	
STAAS & H SUITE 700	IALSEY LLP		BHAT, A	DITYA S
	ORK AVENUE, N.W.		ART UNIT	PAPER NUMBER
WASHINGTO	ON, DC 20005		2863	
		•	DATE MAIL ED: 05/18/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/778,837	NAKATSUHAMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Aditya S Bhat	2863	
The MAILING DATE of this communication app Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thi vill apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication (35.U.S.C. 8.133)	ion.
Status			
1) Responsive to communication(s) filed on 23 Fe	ebruary 2004.		
	action is non-final.	•	
3) Since this application is in condition for allowar	•	ers, prosecution as to the ments	is
closed in accordance with the practice under E			.0
Disposition of Claims			
4) Claim(s) <u>1-8</u> is/are pending in the application.		·	
4a) Of the above claim(s) is/are withdray	vn from consideration.		
5) Claim(s) 8 is/are allowed.	•		٠
6)⊠ Claim(s) <u>1-5 and 7</u> is/are rejected.		c •	
7) Claim(s) 6 is/are objected to.		the state of the s	
8) Claim(s) are subject to restriction and/or	election requirement.	· · · · · · · · · · · · · · · · · · ·	
Application Papers			
9) The specification is objected to by the Examiner	r.		
10)☐ The drawing(s) filed on is/are: a)☐ acce		by the Examiner	
Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correcti			(d)
11)☐ The oath or declaration is objected to by the Ex			(u).
Priority under 35 U.S.C. § 119	armior. Note the attached	2 Office Action of form 1 10-132.	
	nainaite condon OF II O O (440/-> /-> - /0	
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) All b) Some * c) None of:			
1. Certified copies of the priority documents			
2. Certified copies of the priority documents		· · · — — — —	
3. Copies of the certified copies of the prior		received in this National Stage	
application from the International Bureau	• • • •		
* See the attached detailed Office action for a list of	of the certified copies not	received.	
Attachment(s)			
	∧ □	Ummery (DTO 440)	
. 1) IXI Notice of References Cited (PTC-802)	4) L LINTERVIEW S	ummary (PTO-413)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
	Paper No(s	formal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 and 7 rejected under 35 U.S.C. 102(b) as being anticipated by Takaba et al. (USPN 5,565,856).

Takaba et al. (USPN 5,565,856) teaches the limitations of Claim 1 as follows; an abnormality detection device for detecting an abnormality in a communication bus, the device comprising of

a timer counter to measure a time during which a signal is transmitted through said communications bus continues to be a first logical level (825;See Figure 9, 945;Figure 24 & (Col.7& 8, lines 64-67 & 1-24) and

a comparator to compare the time measured by said timer counter with a threshold value and to output an abnormality detection signal indicating an abnormality in said communication bus when the time surpasses said threshold value, (Col. 6, lines 4-16) wherein the abnormality detection device is independent of a CPU controlling the communication bus (300; figure 1a)

Claim 5 has all the limitations of claim one with an additional timer (Col. 1, lines 50-56) and a register for adding the time measured by one of the timers (Col.7, line 40-45)

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With regards to Claim 7, Takaba et al. (USPN 5,565,856) teaches a microcomputer (120;See Figure 1a) connected to a bus comprising of a timer (Col. 6, line 9) to measure a transmission time in a communications bus and a comparator to compare the time measure to a threshold value (Col. 6, lines 4-16)

Regarding claims 2-3, Takaba et al. (USPN 5,565,856) teaches initializing the timer and comparator. (See figure 9)

Regarding Claims 4, Takaba et al. (USPN 5,565,856) teaches plurality of registers and a means for selecting values stored in those registers. (1020;Figure 11)

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 8:

The primary reason for the allowance of claim 8 is the inclusion of: wherein said register supplies said cumulative time to at least one of said at least two timer counters, and said at least one of said at least two timer counters measures the time by using said cumulative time as an initial value. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

During patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification." Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969).

While the meaning of claims of issued patents are interpreted in light of the specification, prosecution history, prior art and other claims, this is not the mode of claim interpretation to be applied during examination. During examination, the claims must be interpreted as broadly as their terms reasonably allowed. This means that the words of the claim must be given their plain meaning unless applicant has provided a clear definition in the specification. In re Zletz, 893 F.2d 319, 321, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989).

In this instance applicant amends the claims in order to show that the abnormality detection device is independent of a CPU controlling the communication bus. Referring to (300;figure 1a) the diagnosis unit does the comparing/ diagnosis of the

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bus independent of the CPU. Applicant argues that the prior art of record fails to teach a comparator, however referring to (Col. 6, lines 5-16) the prior art performs the same functions as the claimed invention, the time measured by a timer counter(Col. 6, line 9) with a threshold value(1 sec) and outputting the abnormality detection signal (Col. 6, line 15). Although the Takaba reference does not explicitly state that it has a comparator, the cited section is functionally equivalent to the claimed invention therefore the rejection is deemed proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aditya S Bhat whose telephone number is 571-272-2270. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aditya Bhat May 14, 2004

> John Barlow Supervisory Patent Examiner Technology Center 2800